A Capture Zone Evaluation will be completed to more fully understand the radius of influence and hydraulic capture of the existing groundwater extraction system. This will be completed by collecting continuous water levels from existing and proposed wells.

Borehole geophysics will be completed at existing and new wells. Prior investigations included borehole geophysical surveying; the additional geophysical surveys consider the advances in borehole geophysical methods since the prior investigation. These advances include heat pulse flow meter and acoustic televiewer logs.

Six monitoring wells (one shallow and five deep) will be installed to collect groundwater samples. Groundwater samples will be collected from discrete intervals of the bedrock.

SCHEDULE AND SITE ACTIVITIES

The RI phase of this work is scheduled to begin in late September 2016 and is expected to last approximately three to four months.

During this period, the work is expected to be contained within the boundaries of the VI Government property for the Curriculum Center, VI Housing Authority to the north and a private property to the south. The equipment used by the contractors will include a drilling rig and associated smaller size support vehicles and hand-held equipment.

Work will be coordinated with the VI Government and the property operations staff to minimize impact to facility workers. Some of the work may be performed during weekends to minimize impact to parking areas at the Curriculum Center.

RESPONSE ACTION

EPA constructed and operated a ground water extraction and treatment system (GWETS) since 2004. The VI Government assumed responsibility for operating the GWETS in 2013 as part of a transfer agreement under the Consent Decree.

SITE HISTORY

O'Henry's Dry Cleaners, the Texaco Service Station, the Esso Service Station and prior operations at the Curriculum Center were all found to be contributors to the impacted soils and groundwater discovered during prior remedial investigations.

The northern-most (upgradient) source of CVOC groundwater contamination is located on the Curriculum Center property, which in the 1970s was owned and operated by LAGA Industries as a textile manufacturing facility. The northern CVOC plume was identified in the 1995 RI to extend approximately 1,600 feet south, in the direction of the groundwater flow and was estimated to be 500 feet wide. The principal CVOCs detected in the northern plume were cis-1,2- dichloroethene (cis-1,2-DCE) at 2,100 ug/l,, tetrachloroethylene (PCE) at 360 ug/l, and trichloroethylene (TCE) at 78 ug/l. Vinyl chloride was also detected at 1,300 ug/l, but its detection was restricted to the immediate vicinity of the Curriculum Center.

A groundwater extraction and treatment system was constructed to achieve hydraulic control and remove CVOC groundwater contamination. Operation, maintenance, and monitoring activities have been performed by the USEPA starting in April 2004 and by the VI Government since April 2013. GW sampling is currently performed annually to monitor the contamination reduction.